

(19)



JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 01053121 A

(43) Date of publication of application: 01 . 03 . 89

(51) Int. Cl.

G01J 3/51

(21) Application number: 62208218

(22) Date of filing: 24 . 08 . 87

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## (54) COLOR DISCRIMINATING DEVICE

## (57) Abstract

**PURPOSE:** To automate register mark discrimination for the registration of multicolor printing by rotating a disk where filters differing in wavelength range are fitted at a constant speed and reading an image through the filters.

**CONSTITUTION:** The narrow-band filters 3 of about 480nm, 580nm, 650nm, and 800nm are fitted to the disk 4, which is rotated at the constant speed; and a register mark 2 is inputted as an image through an image reader 6. Consequently, a color transmitted through the 480nm filter 3 is discriminated as cyan, a color transmitted through the 580nm filter 3 as yellow, and a color transmitted through the 650nm filter 3 and not transmitted through the 580nm filter 3 as magenta to measure the shift quantity of the register mark 2 of a multicolor image printed in 2 or  $\geq 3$  colors, and the calculation of a correction quantity accompanying it is facilitated.

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